

AMENDMENTS TO THE SPECIFICATION

Please amend paragraph [0009] of the Substitute Specification as follows:

In the figures, in each case illustrated in a schematic simplified form:

Figure 1 and Figure 2 show the front face and rear face of a transducer array,

Figure 3 shows a section illustration of a transducer array as shown in Figures 1/2,

Figure 4 shows a plan view of a two-dimensional array,

Figure 5 shows a section illustration, as a partial detail of the transducer array shown in Figure 4 with the associated contact,

Figures 6 to 14 show section illustrations of various variants of a transducer array as shown in Figures 1/2,

Figure 15 shows a measurement apparatus using a transducer array as shown in Figures 3 to 14,

Figure 16 shows the results of use of a transducer array as an ion-selective sensor, and

Figure 17 shows results of the use of a transducer array corresponding to one of Figures 1 to 14 as a DNA sensor.

Please amend paragraph [0011] of the Substitute Specification as follows:

Furthermore, by way of example, so-called microelectrode arrays are known from EP 0 504 196 B1 and DE [[197]]297 17 809 U1, in which the sensor cavities have as small an area as possible. DE 199 16 921 A1 discloses a method for production of arrays which are arranged in pairs and are composed of microelectrodes, in which the mount is either silicon or plastic. The aim in this case is to be able to drive the individual electrodes separately. DNA analysis is quoted in particular as an application.